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## Amendments to the Claims

1. (Twice Amended) A process for polymerizing olefin(s) comprising combining said olefin(s) in the presence of a catalyst system comprising a Group 15 containing [bidentate or] tridentate ligated metal catalyst compound, wherein the process is conducted at a temperature from between 50° C. to 200° C., and wherein the catalyst compound is represented by the formula: [formulae:]

$$\begin{array}{c|c}
R^{4} & R^{6} \\
R^{2} & Z & R^{7}
\end{array}$$
or
$$\begin{array}{c|c}
R^{4} & R^{6} \\
R^{7} & R^{6} \\
R^{3} & Y & R^{6} \\
R^{3} & Y & R^{7}
\end{array}$$

wherein M is metal;

each X is an aryl substituted alkyl leaving group;

y is 0 or 1;

n is the oxidation state of M;

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m is the formal charge of Y, Z and L [or of Y, Z, and L'];

L is a Group 15 element;

IL' is a Group 15 element or Group 14 containing group;]

Y is a Group 15 element;

Z is a Group 15 element;

 $R^1$  and  $R^2$  are independently a <u>linear, branched, or cyclic C<sub>2</sub>-C<sub>20</sub> alkyl group;</u> [C<sub>1</sub> to C<sub>20</sub> hydrocarbon group, a heteroatom containing group having up to twenty carbon atoms, silicon, germanium, tin, lead, or phosphorus; ]

R<sup>3</sup> is absent, a hydrocarbon group, hydrogen, a halogen, or a heteroatom containing group;

R<sup>4</sup> and R<sup>5</sup> are independently an alkyl group, an aryl group, a substituted aryl group, a cyclic alkyl group, a substituted cyclic alkyl group, a cyclic arylalkyl group, a substituted cyclic arylalkyl group or a multiple ring system;

 $R^1$  and  $R^2$  may be interconnected to each other, and/or  $R^4$  and  $R^5$  may be interconnected to each other; and

R<sup>6</sup> and R<sup>7</sup> are independently absent, hydrogen, an alkyl group, halogen, heteroatom or a hydrocarbyl group; [and

R\* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group!

wherein said Group 15 containing tridentate ligated metal catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a suspension.

(Once Amended) The process of claim 1 wherein R<sup>1</sup> and R<sup>2</sup> are a C<sub>2</sub> to C<sub>6</sub>
 hydrocarbon radical [selected from the group consisting of a C<sub>1</sub> to C<sub>20</sub> hydrocarbon
 group, a heteroatom containing group, silicon, germanium, tin, lead, and phosphorus].

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## 3. (Cancelled)

(Original) The process of claim 1 wherein R<sup>4</sup> and R<sup>5</sup> are represented by the formula: 4.

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wherein  $R^8$  to  $R^{12}$  are each independently hydrogen, a  $C_l$  to  $C_{40}$  alkyl group, a halide, a heteroatom, or a heteroatom containing group containing up to 40 carbon atoms, wherein any two R groups may form a cyclic group and/or a heterocyclic group, and wherein the cyclic groups may be aromatic.

- (Once Amended) The process of claim 4 wherein R<sup>8</sup> to R<sup>12</sup> [R<sup>9</sup>, R<sup>10</sup> and R<sup>12</sup>] are 5. independently a methyl, ethyl, propyl or butyl group and X is a substituted aryl group having greater than 10 carbon atoms.
- (Once Amended) The process of claim 4 wherein R<sup>8</sup> to R<sup>12</sup> [R<sup>9</sup>, R<sup>10</sup> and R<sup>12</sup>] are 6. methyl groups, and [R<sup>8</sup> and R<sup>11</sup> are hydrogen and] X is [a] an alkyl substituted with an aryl group.
- (Original) The process of claim 4 wherein L, Y, and Z are nitrogen, R<sup>1</sup> and R<sup>2</sup> are a 7. hydrocarbon radical, R<sup>3</sup> is hydrogen, and R<sup>6</sup> and R<sup>7</sup> are absent.
- 8. (Once Amended) The process of claim 1 wherein L and Z are independently nitrogen, L' is a hydrocarbyl radical, ] and R<sup>6</sup> and R<sup>7</sup> are absent.
- 9. (Cancelled)
- 10. (Original) The process of claim 1 wherein the process is a continuous gas phase process.

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- 11. (Original) The process of claim 1 wherein the process is a continuous slurry phase process.
- 12. (Original) The process of claim 1 wherein the olefin(s) is ethylene or propylene.
  - 13. (Original) The process of claim 1 wherein the olefins are ethylene and at least one other monomer having from 3 to 20 carbon atoms.
  - 14. (Original) The process of claim 1 wherein the catalyst system further comprises an activator.